In the Claims

- 1. (currently amended) An ink jet ink comprising at least one compound selected from the group consisting of
 - a) the dialkyl hydroxylamine stabilizers and
 - b) the nitrone stabilizers

or

an ink jet system comprising a recording material and at least one colored ink to be applied to the recording material by means of an ink jet nozzle, wherein the recording material or the at least one colored ink comprises at least one compound selected from the group consisting of

- a) the dialkyl hydroxylamine stabilizers and
- b) the nitrone stabilizers

where the dialkyl hydroxylamine stabilizers are selected from the group consisting of N,N-dibenzylhydroxylamine, N,N-dimethylhydroxylamine, N,N-bis(2-hydroxypropyl)hydroxylamine, N,N-bis(3-hydroxypropyl)hydroxylamine, N,N-bis(2-carboxyethyl)hydroxylamine, N,N-bis(benzylthiomethyl)-hydroxylamine, N,N-dioctylhydroxylamine, N,N-dilaurylhydroxylamine, N,N-didodecylhydroxylamine, N,N-ditetradecylhydroxylamine, N,N-dihexadecylhydroxylamine, N,N-dioctadecylhydroxylamine, N-hexadecyl-N-heptadecylhydroxylamine, N-hexadecyl-N-octadecylhydroxylamine, N-hexadecyl-N-octadecylhydroxylamine, N-methyl-N-octadecylhydroxylamine, N,N-di(hydrogenated tallow)hydroxylamine,

$$\begin{bmatrix} C_6 F_{13} & S & \\ & & & \\ & & & \end{bmatrix}$$
 OH $\begin{bmatrix} HO & & & \\ & & & \\ & & & \\ & & & \end{bmatrix}$ OH

$$\begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH}$$

$$\begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \end{bmatrix}^{$$

where n = 2 to 200 of the formula

R₄R₂N-OH

----where

 R_4 is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms or aralkyl of 7 to 9-carbon atoms; or R_4 is said alkyl, cycloalkyl or aralkyl substituted by one to six alkyl of 1 to 12 carbon atoms, perfluoroalkyl of 1 to 12 carbons atoms, halogen, cyano, E_4O_- , E_4CO_- , E_4C

 R_2 is hydrogen or independently has the same meaning as R_4 , where at least one of R_4 and R_2 contains a hydrogen alpha to the -NOH moiety; and

E_1 and E_2 independently are hydrogen, alkyl of 1 to 8 carbon atoms or alkyl of 1 to 8 carbon atoms substituted by one to three hydroxyl groups; or E_1 and E_2 independently are an eligomer of poly(ethylene glycol) or poly(propylene glycol) terminated by hydroxyl, methoxy, acetate or propionate, where the eligomer has a molecular weight up to about 500; and
with the provise that diethyl hydroxylamine is excluded.
2. (previously presented) An ink jet ink or ink jet system according to claim 1 which comprises at least one compound selected from the group consisting of the dialkyl hydroxylamine stabilizers.
3. (canceled)
4. (canceled)
5. (previously presented) An ink jet ink or ink jet system according to claim 2 where the dialkyl hydroxylamine stabilizers are N,N-bis(2-hydroxypropyl)hydroxylamine, N,N-bis(3-hydroxypropyl)hydroxylamine, N,N-dibenzylhydroxylamine or N,N-di(hydrogenated tallow)hydroxylamine.
6. (previously presented) An ink jet ink or ink jet system according to claim 1 which comprises at least one compound selected from the group consisting of the nitrone stabilizers.
7. (previously presented) An ink jet ink or ink jet system according to claim 6 where the nitrone stabilizers are of the formula

$$R_2 \longrightarrow R_1$$

wherein

 R_1 is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms or aralkyl of 7 to 9 carbon atoms; or R_1 is said alkyl, cycloalkyl or aralkyl substituted by one to six alkyl of 1 to 12 carbon atoms, perfluoroalkyl of 1 to 12 carbon atoms, halogen, cyano, E_1O_- , E_1CO_- , $M^+O^-CO_-$, E_1CO_- , E_1CO_- , E_1SO_- , $E_$

R₂ is hydrogen or independently has the same meaning as R₁; or

 R_1 and R_2 together form a C_{2-12} heterocyclic ring which is unsubstituted or is substituted by one to three three alkyl of 1 to 12 carbon atoms, perfluoroalkyl of 1 to 12 carbon atoms, halogen, cyano, E_1O_- , E_1CO_- , $M^+O^-CO_-$, E_1OCO_- , E_1COO_- , E_1S_- , $E_1S_$

M[⁺] is a mono-, di- or tri-valent metal cation;

 E_1 and E_2 independently are hydrogen, alkyl of 1 to 8 carbon atoms or alkyl of 1 to 8 carbon atoms substituted by one to three hydroxyl groups; or E_1 and E_2 independently are an oligomer of poly(ethylene glycol) or poly(propylene glycol) terminated by hydroxyl, methoxy, acetate or propionate, where the oligomer has a molecular weight up to about 500; and

 R_3 independently has the same meaning as R_1 ;

or the nitrones are of the formula

$$\begin{bmatrix} R_5 & R_4 & O^{-} \\ E - N & N^{+} & T \\ R_5 & R_4 & n \end{bmatrix}$$

$$\begin{bmatrix} & R_5 & R_4 & O^{-} & \\ E-N & G_3 & N & \\ & & & G_4 & M \end{bmatrix} G_2$$

and

wherein

E is hydrogen, oxyl, hydroxyl, alkyl of 1 to 18 carbon atoms, alkenyl of 3 to 18 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, hydroxyalkyl of 2 to 6 carbon atoms, alkoxyalkyl of 2 to 20 carbon atoms, alkanoyl of 1 to 18 carbon atoms, alkoxy of 1 to 18 carbon atoms, cycloalkoxy of 5 to 12 carbon atoms, aryloxy of 6 to 10 carbon atoms, hydroxyalkoxy of 2 to 6 carbon atoms, alkoxyalkoxy of 2 to 20 carbon atoms, aralkoxy of 7 to 15 carbon atoms or a bicyclo or tricycloaliphatic oxy radical of 7 to 12 carbon atoms.

 R_4 and R_5 are independently alkyl of 1 to 4 carbon atoms or together R_3 and R_4 are pentamethylene,

n is 1, 2, 3 or 4,

when n is 1, T is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, aralkyl of 7 to 9 carbon atoms or aralkyl of 7 to 9 carbon atoms substituted by alkyl of 1 to 4 carbon atoms or by one or two halogen atoms, said alkyl interrupted by one or more oxygen atoms, cyanoethyl, alkenyl of 3 to 8 carbon atoms, alkoxycarbonylalkyl of 4 to 36 carbon atoms where alkyl is of 1 to 4 carbon atoms,

when n is 2, T is alkylene of 2 to 12 carbon atoms, arylene of 6 to 10 carbon atoms, xylylene, - CH₂CHOHCH₂-, -CH₂CHOHCH₂-O-G₁-O-CH₂CHOHCH₂-, -CH₂-phenylene-COO-G₁-OCO-phenylene-CH₂- or -CH₂-phenylene-CH₂-OCO-G₁-COO-CH₂-phenylene-CH₂-,

 G_1 is alkylene of 2 to 12 carbon atoms, arylene of 6 to 10 carbon atoms or cycloalkylene of 6 to 12 carbon atoms,

when n is 3, T is alkanetriyl of 3 to 6 carbon atoms, or is

$$CH_2$$
 CH_3 , and CH_2 CH_2

when n is 4, T is alkanetetrayl of 4 to 6 carbon atoms,

 G_3 is a direct bond, -OCO-($C_qH_{2q})_q$ -, -OCO-phenylene- CH_2 -, -NG₄-CO-($C_qH_{2q})_q$ - or -NG₄-CO-phenylene- CH_2 - where q is 1 to 12,

G₄ is hydrogen, alkyl of 1 to 8 carbon atoms or phenyl,

m is 1 or 2,

when m is 1, G_2 is alkyl of 1 to 36 carbon atoms, said alkyl interrupted by one or more oxygen atoms, cyanomethyl, cycloalkyl of 6 to 8 carbon atoms, alkenyl of 2 to 8 carbon atoms, aryl of 6 to 10 carbon atoms, or aryl of 6 to 10 carbon atoms substituted by alkyl of 1 to 4 carbon atoms or by one or two halogen atoms, or alkoxycarbonylalkyl of 4 to 36 carbon atoms where alkyl is of 1 to 4 carbon atoms, and

when m is 2, G₂ is alkylene of 2 to 12 carbon atoms or arylene of 6 to 10 carbon atoms,

X and X₁ are independently Q-G, where Q is -O-, -COO-, -OCO- or -NR₆-,

 R_6 is hydrogen, alkyl of 1 to 8 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, cyanoethyl, aryl of 6 to 10 carbon atoms, aralkyl of 7 to 15 carbon atoms or -CH₂CHR₇OH, and R₇ is hydrogen, methyl or phenyl, with Q being attached to the piperidinyl ring,

G is alkylene of 1 to 4 carbon atoms, arylene of 6 to 10 carbon atoms or arylene-alkylene of 7 to 15 carbon atoms,

R₈ and R₉ are independently hydrogen or alkyl of 1 to 8 carbon atoms, and

L and L₁ are independently -CO-alkylene of 2 to 5 carbon atoms or -CO-phenylene-with the carbonyl group being attached to the N atom.

8. (previously presented) An ink jet ink or ink jet system according to claim 6 where the nitrone stabilizers are selected from the group consisting of N-benzyl- α -phenylnitrone, N-ethyl- α -methylnitrone, N-octyl- α -heptylnitrone, N-lauryl- α -undecylnitrone, N-tetradecyl- α -tridcylnitrone, N-hexadecyl- α -pentadecylnitrone, N-octadecyl- α -heptadecylnitrone, N-hexadecyl- α -heptadecylnitrone, N-octadecyl- α -heptadecylnitrone, N-octadecyl- α -heptadecylnitrone, N-octadecyl- α -hexadecylnitrone, N-methyl- α -heptadecylnitrone, the nitrone derived from N,N-di(hydrogenated tallow)hydroxylamine, N-benzyl- α -methylnitrone, N-butyl- α -propylnitrone,

- 9. (previously presented) An ink jet ink or ink jet system according to claim 6 where the nitrone stabilizers are N-benzyl- α -phenylnitrone or N-ethyl- α -methylnitrone.
- **10.** (previously presented) An ink jet ink or ink jet system according to claim **7** in which E is hydrogen, hydroxyl, alkyl of 1 to 12 carbon atoms, alkyl, benzyl, alkanoyl of 2 to 4 carbon atoms, alkoxy of 1 to 12 carbon atoms, cyclohexyloxy or alpha-methylbenzyloxy.
- 11. (previously presented) An ink jet ink or ink jet system according to claim 7 in which

R₄ and R₅ are each methyl,

when n is 1, T is hydrogen, alkyl of 1 to 18 carbon atoms, benzyl or alkoxycarbonylalkyl of 4 to 18 carbon atoms where the alkyl is of 2 to 4 carbon atoms,

when n is 2, T is alkylene of 2 to 8 carbon atoms or is p-xylylene,

when n is 3, T is glyceryl,

when n is 4, T is pentaerythrityl,

G₃ is a direct bond,

G₄ is hydrogen,

when m is 1, G₂ is alkyl of 1 to 12 carbon atoms or phenyl,

when m is 2, G₂ is alkylene of 3 to 8 carbon atoms or phenylene,

X and X₁ are the same,

R₈ and R₉ are each hydrogen, and

L and L₁ are the same and are -CO-CH₂- or -CO-phenylene-.

12. (previously presented) An ink jet ink or ink jet system according to claim 6 where the nitrone stabilizers are selected from the group consisting of α -phenyl-N-(2,2,6,6-tetramethylpiperidin-4-yl)nitrone, α -phenyl-N-(1,2,2,6,6-pentamethylpiperidin-4-yl)nitrone, α -phenyl-N-(1-cyclohexyloxy-2,2,6,6-tetramethylpiperidin-4yl)nitrone, α -phenyl-N-(1-octyloxy-2,2,6,6-tetramethylpiperidin-4yl)nitrone, α , α '-p-phenylene-N,N'-bis[(2,2,6,6-tetramethylpiperidin-4-yl)nitrone], N-benzyl-N-(1-cyclohexyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone, α -isopropyl-N-(1-octyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone, α -isopropyl-N-(1-octyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone], α -n-propyl-N-(1-octyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone], α -n-propyl-N-(1-octyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone], α -n-propyl-N-(1-octyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone], α -n-propyl-N-(1-octyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone], α -n-propyl-N-(1-octyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone], α -n-propyl-N-(1-octyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone], α -n-propyl-N-(1-octyloxy-2,2,6,6-tetramethylpiperidin-4-yl)nitrone]

propyl-N-(1-acetyl-2,2,6,6-tetramethylpiperidin-4-yl)nitrone and α -[4-(1-cyclohexyloxy-2,2,6,6-tetramethylpiperidin-4-yloxycarbonyl)-phenyl]-N-[4-(1-cyclohexyloxy-2,2,6,6-tetramethyl-piperidin-4-yloxycarbonyl)benzyl]nitrone.

13-18. (canceled)

19. (previously presented) An ink jet ink or ink jet system according to claim 1 comprising

at least one compound selected from the group consisting of a) the dialkyl hydroxylamine stabilizers and at least one compound selected from the group consisting of b) the nitrone stabilizers.

- **20.** (previously presented) An ink jet ink according to claim 1 which comprises about 0.01 to about 30% by weight of at least one compound selected from the group consisting of components a) and b), based on the weight of the ink jet ink.
- **21.** (previously presented) An ink jet system according to claim **1**, wherein the recording material comprises about 1 to about 10000 mg/m² of at least one compound selected from the group consisting of components a) and b).
- 22. (previously presented) An ink jet ink or ink jet system according to claim 1 further comprising a UV absorber selected from the group consisting of the hydroxyphenylbenzotriazoles, the tris-aryl-striazines, the benzophenones, the α -cyanoacrylates, the oxanilides, the benzoxazinones, the benzoxazinones and the α -alkyl cinnamates.
- **23.** (previously presented) An ink jet ink or ink jet system according to claim **1** further comprising a UV absorber selected from the group consisting of the hydroxyphenylbenzotriazoles, the tris-aryl-striazines and the benzophenones.

- 24. (previously presented) An ink jet ink or ink jet system according to claim 1 further comprising a UV absorber selected from the group consisting of
 - 5-chloro-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-3,5-di-tert-amylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-3,5-di- α -cumylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-3- α -cumyl-5-tert-octylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-5-tert-octylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-5-methylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-3-tert-butyl-5-methylphenyl)-2H-benzotriazole-5-sulfonic acid, sodium salt;
 - 3-tert-butyl-4-hydroxy-5-(2H-benzotriazol-2-yl)-hydrocinnamic acid;
- 12-hydroxy-3,6,9-trioxadodecyl 3-tert-butyl-4-hydroxy-5-(2H-benzotriazol-2-yl)-hydrocinnamate;
 - octyl 3-tert-butyl-4-hydroxy-5-(2H-benzotriazol-2-yl)-hydrocinnamate;
- 2-(3-t-butyl-2-hydroxy-5-(2-(ω -hydroxy-octa-(ethyleneoxy)carbonyl-ethyl)-phenyl)-2H-benzotriazole;
 - 4,6-bis(2,4-dimethylphenyl)-2-(4-octyloxy-2-hydroxyphenyl)-s-triazine;
 - 2.4-bis(2-hydroxy-4-butyloxyphenyl)-6-(2,4-bis-butyloxyphenyl)-1,3,5-triazine;
- 2-[4-(dodecyloxy/tridecyloxy-2-hydroxypropoxy)-2-hydroxyphenyl]-4,6-bis(2,4-dimethylphenyl)1,3,5-triazine;
- the reaction product of tris(2,4-dihydroxyphenyl)-1,3,5-triazine with the mixture of α -chloropropionic esters (made from isomer mixture of C_7 - C_9 alcohols);
 - 2,4-dihydroxybenzophenone;
 - 2,2'.4,4'-tetrahydroxy-5,5'-disulfobenzophenone, disodium salt;
 - 2-hydroxy-4-octyloxybenzophenone;
 - 2-hydroxy-4-dodecyloxybenzophenone;
 - 2,4-dihydroxybenzophenone-5-sulfonic acid and salts thereof;
 - 2-hydroxy-4-methoxybenzophenone-5-sulfonic acid and salts thereof;
 - 2,2'-dihydroxy-4,4'dimethoxybenzophenone-5,5'-disodium sulfonate;
 - 3-(2H-benzotriazol-2-yl)-4-hydroxy-5-sec-butylbenzenesulfonic acid, sodium salt; and
 - 2-(2'-hydroxy-3'-tert-butyl-5'-polyglycolpropionate-phenyl)benzotriazole.

25. (canceled)

- **26.** (currently amended) A process for stabilizing ink jet prints which comprises applying to a recording material for ink jet printing an ink composition comprising a water soluble dye or a solution of a dye in an organic solvent and at least one compound selected from the group consisting of
 - a) the dialkyl hydroxylamine stabilizers and
 - b) the nitrone stabilizers and

drying said recording material

where the dialkyl hydroxylamine stabilizers are selected from the group consisting of N,N-dibenzylhydroxylamine, N,N-dimethylhydroxylamine, N,N-bis(2-hydroxypropyl)hydroxylamine, N,N-bis(3-hydroxypropyl)hydroxylamine, N,N-bis(2-carboxyethyl)hydroxylamine, N,N-bis(benzylthiomethyl)-hydroxylamine, N,N-dioctylhydroxylamine, N,N-dilaurylhydroxylamine, N,N-didodecylhydroxylamine, N,N-ditetradecylhydroxylamine, N,N-dihexadecylhydroxylamine, N,N-dioctadecylhydroxylamine, N-hexadecyl-N-heptadecylhydroxylamine, N-hexadecyl-N-octadecylhydroxylamine, N-methyl-N-octadecylhydroxylamine, N,N-di(hydrogenated tallow)hydroxylamine,

$$\begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \end{bmatrix}^{N-OH}$$

$$\begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\$$

where n = 2 toof-the formula

R₁R₂N-OH

----where

 R_4 is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms or aralkyl of 7 to 9 carbon atoms; or R_4 is said alkyl, cycloalkyl or aralkyl substituted by one to six alkyl of 1 to 12 carbon atoms, perfluoroalkyl of 1 to 12 carbons atoms, halogen, cyano, E_4O_7 , E_4CO_7 , E_4C

 R_2 is hydrogen or independently has the same meaning as R_4 , where at least one of R_4 and R_2 contains a hydrogen alpha to the -NOH moiety; and

E₁-and E₂ independently are hydrogen, alkyl of 1 to 8 carbon atoms or alkyl of 1 to 8 carbon atoms substituted by one to three hydroxyl groups; or E₁-and E₂ independently are an oligomer of poly(ethylene glycol) or poly(propylene glycol) terminated by hydroxyl, methoxy, acetate or propionate, where the oligomer has a molecular weight up to about 500; and

with the proviso that diethyl hydroxylamine is excluded.

27. (currently amended) A process for stabilizing ink jet prints which comprises applying to a recording material for ink jet printing a casting or coating dispersion or an aqueous or organic solution comprising at least one compound selected from the group consisting of

- a) the dialkyl hydroxylamine stabilizers and
- b) the nitrone stabilizers and

further applying either an ink composition comprising a water soluble dye or a solution of a dye in an organic solvent; or an ink composition comprising a water soluble dye or a solution of a dye in an organic solvent and at least one compound selected from the group consisting of components a) and b) and drying said recording material

where the dialkyl hydroxylamine stabilizers are selected from the group consisting of N,N-dibenzylhydroxylamine, N,N-dimethylhydroxylamine, N,N-bis(2-hydroxypropyl)hydroxylamine, N,N-bis(3-hydroxypropyl)hydroxylamine, N,N-bis(2-carboxyethyl)hydroxylamine, N,N-bis(benzylthiomethyl)-hydroxylamine, N,N-dioctylhydroxylamine, N,N-dilaurylhydroxylamine, N,N-didodecylhydroxylamine, N,N-dioctadecylhydroxylamine, N,N-dioctadecylhydroxylamine, N-hexadecyl-N-heptadecylhydroxylamine, N-hexadecyl-N-heptadecylhydroxylamine, N-hexadecyl-N-octadecylhydroxylamine, N-methyl-N-octadecylhydroxylamine, N,N-di(hydrogenated tallow)hydroxylamine,

$$\begin{bmatrix} C_6 F_{13} & S & \\ \end{bmatrix}_2^N OH \begin{bmatrix} HO & O & \\ \\ \end{bmatrix}_2^N OH$$

$$\begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH}$$

$$\begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \\ \end{bmatrix}^{N-OH} \begin{bmatrix} \\ \\ \end{bmatrix}^{$$

where n = 2 to 200 of the formula

R₄R₂N-OH

----where

 R_4 is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms or aralkyl of 7 to 9 carbon atoms; or R_4 is said alkyl, cycloalkyl or aralkyl substituted by one to six alkyl of 1 to 12 carbon atoms, perfluoroalkyl of 1 to 12 carbons atoms, halogen, cyano, E_4O , E_4CO , $E_$

 R_2 is hydrogen or independently has the same meaning as R_4 , where at least one of R_4 and R_2 contains a hydrogen alpha to the -NOH moiety; and

——E₁ and E₂ independently are hydrogen, alkyl of 1 to 8 carbon atoms or alkyl of 1 to 8 carbon
atoms substituted by one to three hydroxyl groups; or E ₁ and E ₂ independently are an oligomer of
poly(ethylene glycol) or poly(propylene glycol) terminated by hydroxyl, methoxy, acetate or propionate
where the oligomer has a molecular weight up to about 500; and
with the proviso that diethyl hydroxylamine is excluded.

- **28.** (previously presented) An ink jet recording material which is coated with at least one layer which is able to absorb ink, which at least one layer comprises at least one compound selected from the group consisting of
 - a) the dialkyl hydroxylamine stabilizers and
 - b) the nitrone stabilizers

where the dialkyl hydroxylamine stabilizers are of the formula

R₁R₂N-OH

where

 R_1 is alkyl of 1 to 36 carbon atoms, cycloalkyl of 5 to 12 carbon atoms or aralkyl of 7 to 9 carbon atoms; or R_1 is said alkyl, cycloalkyl or aralkyl substituted by one to six alkyl of 1 to 12 carbon atoms, perfluoroalkyl of 1 to 12 carbons atoms, halogen, cyano, E_1O_- , E_1CO_- , E_1CO_- , E_1SO_- , E_1S

 R_2 is hydrogen or independently has the same meaning as R_1 , where at least one of R_1 and R_2 contains a hydrogen alpha to the -NOH moiety; and

 E_1 and E_2 independently are hydrogen, alkyl of 1 to 8 carbon atoms or alkyl of 1 to 8 carbon atoms substituted by one to three hydroxyl groups; or E_1 and E_2 independently are an oligomer of poly(ethylene glycol) or poly(propylene glycol) terminated by hydroxyl, methoxy, acetate or propionate, where the oligomer has a molecular weight up to about 500; and

with the proviso that diethyl hydroxylamine is excluded.

- 29. (previously presented) An ink jet ink recording material according to claim 28 which comprises at least one compound selected from the group consisting of the dialkyl hydroxylamine stabilizers.
- 30. (previously presented) An ink jet recording material according to claim 29 where the dialkyl hydroxylamine stabilizers are selected from the group consisting of N,N-dibenzylhydroxylamine, N,N-dimethylhydroxylamine, N,N-bis(2-hydroxypropyl)hydroxylamine, N,N-bis(3-hydroxypropyl)hydroxylamine, N,N-bis(2-carboxyethyl)hydroxylamine, N,N-bis(benzylthiomethyl)hydroxylamine, N,N-dioctylhydroxylamine, N,N-didodecylhydroxylamine, N,N-ditetradecylhydroxylamine, N,N-didodecylhydroxylamine, N,N-dietradecylhydroxylamine, N,N-dioctadecylhydroxylamine, N-hexadecyl-N-beptadecylhydroxylamine, N-hexadecyl-N-octadecylhydroxylamine, N-methyl-N-octadecylhydroxylamine, N,N-di(hydrogenated tallow)hydroxylamine,

where n = 2 to 200.

- **31.** (previously presented) An ink jet recording material according to claim **28** which comprises at least one compound selected from the group consisting of the nitrone stabilizers.
- 32. (previously presented) An ink jet recording material according to claim 31 where the nitrone stabilizers are selected from the group consisting of N-benzyl- α -phenylnitrone, N-ethyl- α -methylnitrone, N-octyl- α -heptylnitrone, N-lauryl- α -undecylnitrone, N-tetradecyl- α -tridcylnitrone, N-hexadecyl- α -pentadecylnitrone, N-octadecyl- α -heptadecylnitrone, N-hexadecyl- α -heptadecylnitrone, N-octadecyl- α -heptadecylnitrone, N-octadecyl- α -heptadecylnitrone, N-octadecyl- α -hexadecylnitrone, N-methyl- α -heptadecylnitrone, the nitrone derived from N,N-di(hydrogenated tallow)hydroxylamine, N-benzyl- α -methylnitrone, N-butyl- α -propylnitrone,

- 34. (previously presented) An ink jet recording material according to claim 28 comprising

at least one compound selected from the group consisting of a) the dialkyl hydroxylamine stabilizers and at least one compound selected from the group consisting of b) the nitrone stabilizers.

35. (previously presented) An ink jet recording material according to claim **28** which comprises about 1 to about 10000 mg/m² of at least one compound selected from the group consisting of components a) and b).

- 36. (previously presented) An ink jet recording material according to claim 28 further comprising a UV absorber selected from the group consisting of the hydroxyphenylbenzotriazoles, the tris-aryl-striazines, the benzophenones, the α -cyanoacrylates, the oxanilides, the benzoxazinones, the benzoxazinones and the α -alkyl cinnamates.
- **37.** (previously presented) An ink jet recording material according to claim **28** further comprising a UV absorber selected from the group consisting of
 - 5-chloro-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-3,5-di-tert-amylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-3,5-di- α -cumylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-3- α -cumyl-5-tert-octylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-5-tert-octylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-5-methylphenyl)-2H-benzotriazole;
 - 2-(2-hydroxy-3-tert-butyl-5-methylphenyl)-2H-benzotriazole-5-sulfonic acid, sodium salt;
 - 3-tert-butyl-4-hydroxy-5-(2H-benzotriazol-2-yl)-hydrocinnamic acid;
- 12-hydroxy-3,6,9-trioxadodecyl 3-tert-butyl-4-hydroxy-5-(2H-benzotriazol-2-yl)-hydrocinnamate;
 - octyl 3-tert-butyl-4-hydroxy-5-(2H-benzotriazol-2-yl)-hydrocinnamate;
- 2-(3-t-butyl-2-hydroxy-5-(2-(ω -hydroxy-octa-(ethyleneoxy)carbonyl-ethyl)-phenyl)-2H-benzotriazole;
 - 4,6-bis(2,4-dimethylphenyl)-2-(4-octyloxy-2-hydroxyphenyl)-s-triazine;
 - 2,4-bis(2-hydroxy-4-butyloxyphenyl)-6-(2,4-bis-butyloxyphenyl)-1,3,5-triazine;
- 2-[4-(dodecyloxy/tridecyloxy-2-hydroxypropoxy)-2-hydroxyphenyl]-4,6-bis(2,4-dimethylphenyl)1,3,5-triazine;
- the reaction product of tris(2,4-dihydroxyphenyl)-1,3,5-triazine with the mixture of α -chloropropionic esters (made from isomer mixture of C_7 - C_9 alcohols);
 - 2,4-dihydroxybenzophenone;
 - 2,2',4,4'-tetrahydroxy-5,5'-disulfobenzophenone, disodium salt;
 - 2-hydroxy-4-octyloxybenzophenone;
 - 2-hydroxy-4-dodecyloxybenzophenone;
 - 2,4-dihydroxybenzophenone-5-sulfonic acid and salts thereof;

- 2-hydroxy-4-methoxybenzophenone-5-sulfonic acid and salts thereof;
- 2,2'-dihydroxy-4,4'dimethoxybenzophenone-5,5'-disodium sulfonate;
- 3-(2H-benzotriazol-2-yl)-4-hydroxy-5-sec-butylbenzenesulfonic acid, sodium salt; and
- 2-(2'-hydroxy-3'-tert-butyl-5'-polyglycolpropionate-phenyl)benzotriazole.